

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
2 October 2003 (02.10.2003)

PCT

(10) International Publication Number  
WO 03/080835 A1

(51) International Patent Classification<sup>7</sup>: C12N 15/12, C07H 21/00, C07K 14/435, 16/30, A61K 38/17, 39/00, A61P 35/00

(74) Agent: JEEKAI & PARTNERS; Suite 602, Jinyu Tower, A129 West Xuan Wu Men Street, Beijing 100031 (CN).

(21) International Application Number: PCT/CN03/00217

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 26 March 2003 (26.03.2003)

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English

Published:

— with international search report

(26) Publication Language: English

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(30) Priority Data:  
02 1 16259.x 26 March 2002 (26.03.2002) CN

(71) Applicant (for all designated States except US): ZENSUN (SHANGHAI) SCI-TECH. LTD. [CN/CN]; No. 328 Bibo Road, Hi-Tech Park, Zhangjiang, Shanghai 201203 (CN).

(72) Inventor; and

(75) Inventor/Applicant (for US only): ZHOU, Mingdong [CN/CN]; No. 328 Bibo Road, Hi-Tech Park, Zhangjiang, Shanghai 201203 (CN).



WO 03/080835 A1

(54) Title: ERBB3 BASED METHODS AND COMPOSITIONS FOR TREATING NEOPLASMS

(57) Abstract: The present invention relates to compositions and methods for treating neoplasms in mammals, particularly humans. More particularly, the present invention provides for methods for preventing, treating or delaying neoplasm in a mammal using an ErbB-3 protein, a nucleic acid encoding an ErbB-3 protein or a functional fragment thereof. The present invention also provides for isolated nucleic acids encoding an extracellular domain of the ErbB-3 protein, or a functional fragment thereof, substantially purified extracellular domain of the ErbB-3 protein, or a functional fragment thereof and antibodies that bind to an epitope in an extracellular domain of the ErbB-3 protein, or a functional fragment thereof. The present invention further provides for pharmaceutical compositions and/or vaccines comprising the extracellular domain of the ErbB-3 protein, or a functional fragment thereof, or nucleic acids encoding and antibodies binding to such extracellular domain or functional fragments thereof.